SEQUENCE LISTING

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Cys Ala 50	Val Gin Lys Val lie Gly Thr Asn Arg Lys Tyr Phe Thr Asn 55 60
Cys Lys 65	Gin Trp Tyr Gin Arg Lys He Cys Gly Lys Ser Thr Val He 70 75 80
Ser Tyr	Glu Cys Cys Pro Gly Tyr Glu Lys Val Pro Gly Glu Lys Gly 85 90 95
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Val Gly	Ser Thr Thr Thr Gln Leu Tyr Thr Asp Arg Thr Glu Lys Leu 115 120 125
Arg Pro 130	Glu Met Glu Gly Pro Gly Ser Phe Thr Ile Phe Ala Pro Ser 135 140
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- Gly Arg Arg Val Leu Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr 180 185 190
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- Thr Asn Gly Val Val His Leu lle Asp Lys Val lle Ser Thr lle Thr 225 230 235 240
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- Gly Gin Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys Ile 275 280 285
- Pro Ser Glu Thr Leu Asn Arg lie Leu Gly Asp Pro Glu Ala Leu Arg 290 295 300
- Asp Leu Leu Asn Asn His 11e Leu Lys Ser Ala Met Cys Ala Glu Ala 305 310 315 320
- lle Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu 325 330 335
- Val Gly Cys Ser Gly Asp Met Leu Thr lie Asn Gly Lys Ala lie lie 340 345 350
- Ser Asn Lys Asp lle Leu Ala Thr Asn Gly Val lle His Tyr lle Asp 355 360 365
- Glu Leu Leu IIe Pro Asp Ser Ala Lys Thr Leu Phe Glu Leu Ala Ala 370 375 380
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- Gly Asn His Leu Ser Gly Ser Glu Arg Leu Thr Leu Leu Ala Pro Leu 405 410 415
- Asn Ser Val Phe Lys Asp Gly Thr Pro Pro 11e Asp Ala His Thr Arg 420 425 430

Asn Leu Leu Arg Asn His IIe IIe Lys Asp Gln Leu Ala Ser Lys Tyr Leu Tyr His Gly Gln Thr Leu Glu Thr Leu Gly Gly Lys Lys Leu Arg Val Phe Val Tyr Arg Asn Ser Leu Cys IIe Glu Asn Ser Cys IIe Ala Ala His Asp Lys Arg Gly Arg Tyr Gly Thr Leu Phe Thr Met Asp Arg Val Leu Thr Pro Pro Met Gly Thr Val Met Asp Val Leu Lys Gly Asp 505 Asn Arg Phe Ser Met Leu Val Ala Ala lle Gln Ser Ala Gly Leu Thr 520 Glu Thr Leu Asn Arg Glu Gly Val Tyr Thr Val Phe Ala Pro Thr Asn 540 530 535 Glu Ala Phe Arg Ala Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu Ala Asn IIe Leu Lys Tyr His IIe Gly Asp Glu 570 lle Leu Val Ser Gly Gly Ile Gly Ala Leu Val Arg Leu Lys Ser Leu 585 580 Gin Gly Asp Lys Leu Glu Val Ser Leu Lys Asn Asn Val Val Ser Val Asn Lys Glu Pro Val Ala Glu Pro Asp lle Met Ala Thr Asn Gly Val 620 610 615 Val His Val IIe Thr Asn Val Leu Gln Pro Pro Ala Asn Arg Pro Gln Glu Arg Gly Asp Glu Leu Ala Asp Ser Ala Leu Glu Ile Phe Lys Gln 650 Ala Ser Ala Phe Ser Arg Ala Ser Gin Arg Ser Val Arg Leu Ala Pro 665 670 660 Val Tyr Gln Lys Leu Leu Glu Arg Met Lys His 680 <210> 2

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Glu Leu Leu Asn Ala Leu Arg Tyr His Met Val Gly Arg Arg Val Leu 35 40 45

Thr Asp Glu Leu Lys His Gly Met Thr Leu Thr Ser Met Tyr Gln Asn 50 55 60

Ser Asn IIe GIn IIe His His Tyr Pro Asn Gly IIe Val Thr Val Asn 65 70 75 80

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Gin Tyr Thr Leu Leu Ala Pro Thr Asn Glu Ala Phe Glu Lys IIe Pro 35 40 45

Ser Glu Thr Leu Asn Arg IIe Leu Gly Asp Pro Glu Ala Leu Arg Asp 50 55 60

Leu Leu Asn Asn His IIe Leu Lys Ser Ala Met Cys Ala Glu Ala IIe 65 70 75 80

Val Ala Gly Leu Ser Val Glu Thr Leu Glu Gly Thr Thr Leu Glu Val 85 90 95

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Leu Pro Pro Arg Glu Arg Ser Arg Leu Leu Gly Asp Ala Lys Glu Leu 50 55 60

Ala Asn lle Leu Lys Tyr His lle Gly Asp Glu lle Leu Val Ser Gly 65 70 75 80

Gly 11e Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp Lys Leu 85 90 95

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Ser Gly Gly 11e Gly Ala Leu Val Arg Leu Lys Ser Leu Gln Gly Asp 35 40 45

Lys Leu Giu Vai Ser Leu Lys Asn Asn Vai Vai Ser Vai Asn Lys Giu 50 55 60

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